

# PATENT ABSTRACTS OF JAPAN

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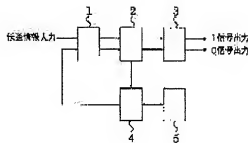
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## (54) MODULATOR AND DEMODULATOR FOR OFDM WAVE

### (57)Abstract:

PURPOSE: To detect a peak of an OFDM wave, to suppress the peak and to transmit peak suppression information superimposed on transmission information in an OFDM modem.

CONSTITUTION: This modem is equipped with an IDFT arithmetic circuit 1, and a peak detection circuit 2 which allocates a frequency to the transmission information and detects the peak over a prescribed value from an IDFT calculation result, and a calculation result is transmitted to the next step as it is when no peak is detected, and when the peak over the prescribed value is detected, the level of a peak negate signal is decided from a peak value by a peak negation circuit 4, and a part at which the peak is generated and the level information of the peak negate signal are added to a specific carrier, and IDFT- calculated with the transmission information again, and the peak negate signal with a code different from that of the peak is superimposed on the part of the calculation result at which the peak is generated and the result is sent.



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